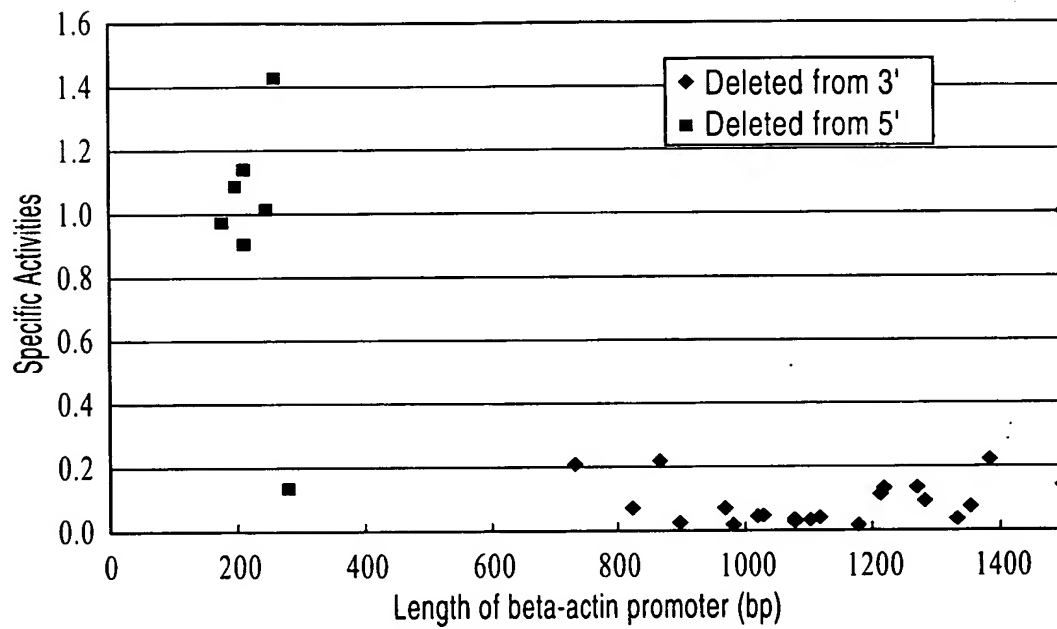


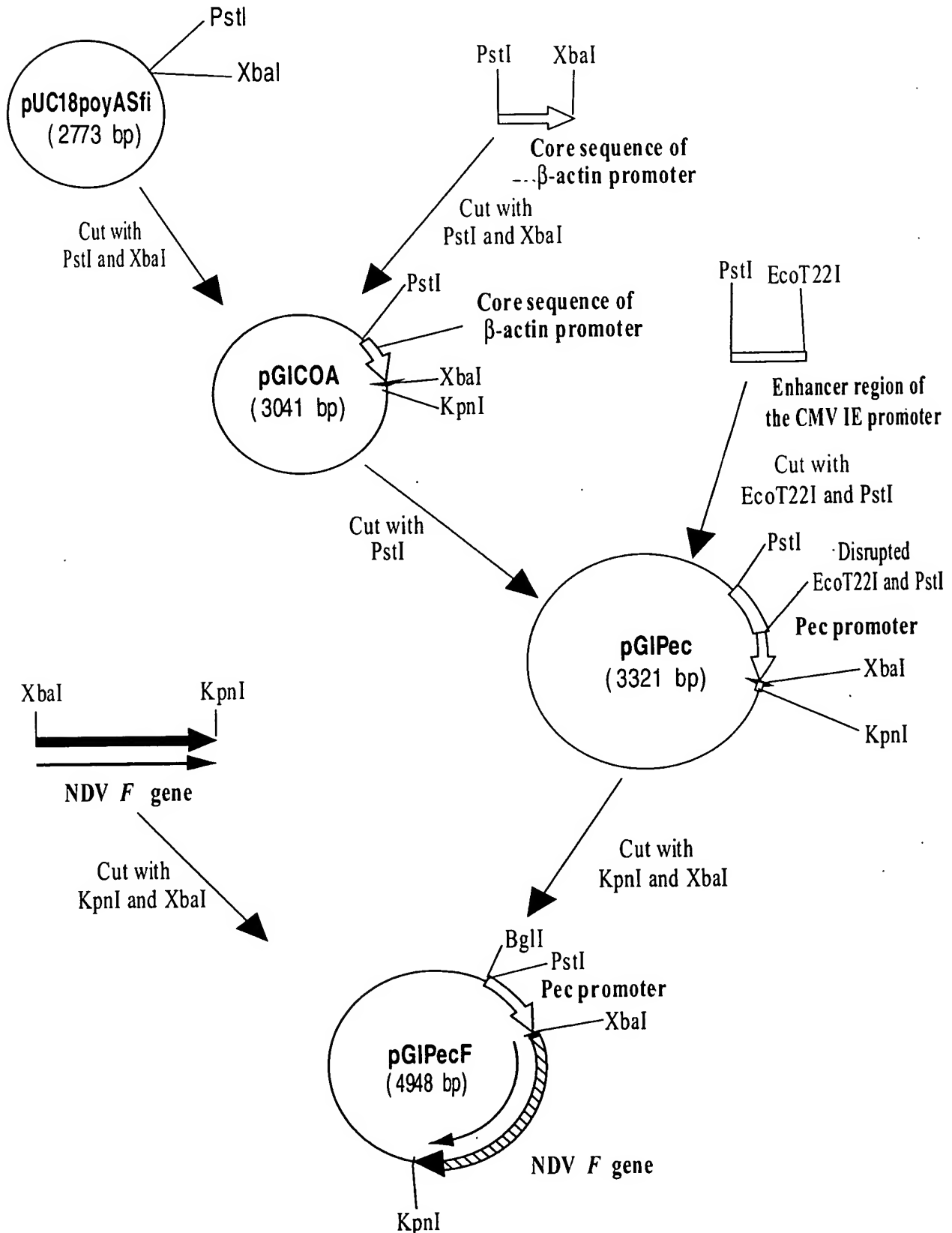


FIG. 1 Activities of Deleted Beta-actin Promoter



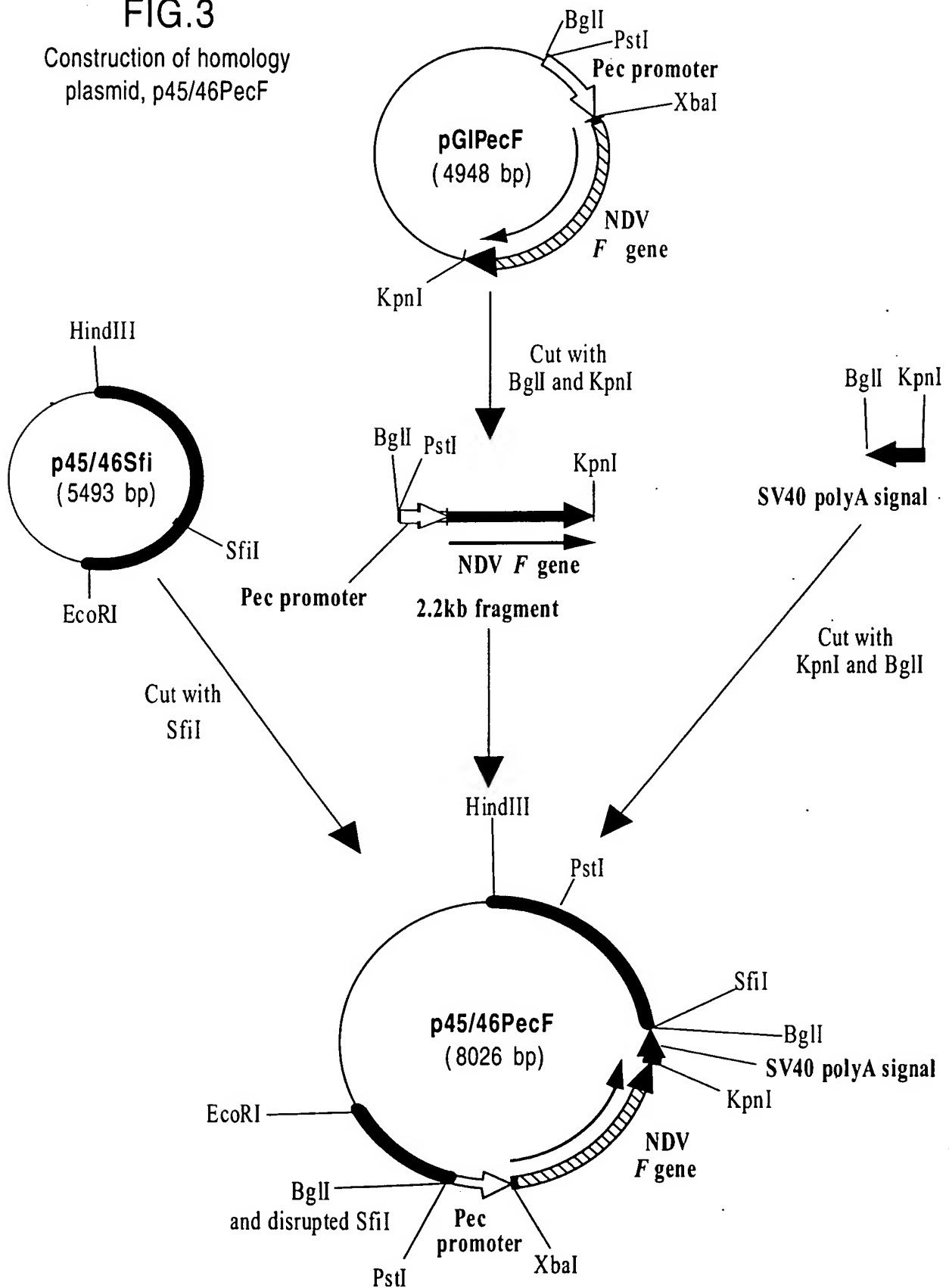
**FIG.2**

Construction of intermediate plasmid, pGI<sub>Pec</sub>F, during the construction of homology plasmid, p45/46<sub>Pec</sub>F.



**FIG.3**

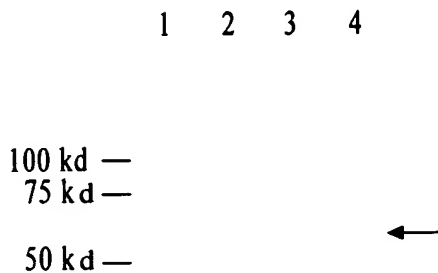
Construction of homology  
plasmid, p45/46PecF



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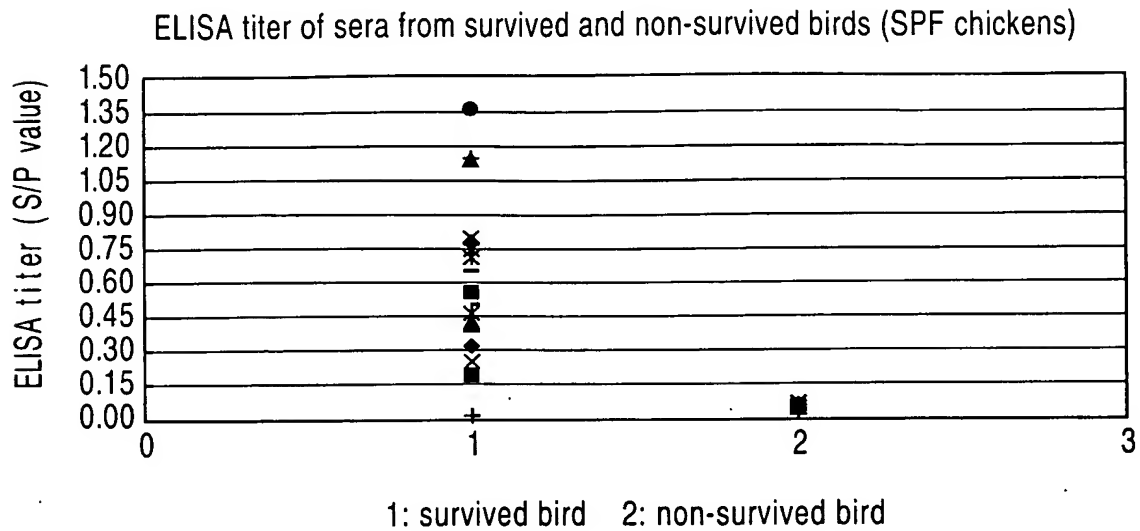
## FIG.4

Western blot assay of rHVT/NDV, rHVT/NDV passage 5, and the HVT parent strain using NDV F rabbit antiserum. Lane 1 = CEF negative control; Lane 2 = HVT parent strain; Lane 3 = rHVT/NDV; Lane 4 = rHVT/NDV passage 5. An arrow indicates the F protein with a molecular weight of 60kDa..



**FIGS.5 and 6** show the ELISA titers of survived and non-survived SPF and commercial birds, respectively. As indicated, all chickens having 0.15 or more of the antibody titer (S/P value) survived the virulent NDV challenge.

**FIG.5**



**FIG.6**

